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### Secure Message Relay over Networks with QKD-Links

S Rass, MA Stazi, S Gheraoui-Helle, K Kyamakya - Quantum, Nano and Micro Technologies, 2008 Second .... 2008 - doi.ieeeecomputersociety.org

... detector and a laser with a single photon emitter and photon polarizer ... to establish an unconditional secure key, a quantum key distribution protocol is ...

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### [PDF] ► Experimental Quantum Cryptography

H Weier - sooty.quantum.physik.uni-muenchen.de

... 15 2.5 One-time Pad ... 45 3.5.1 Error Correction ... method of quantum information processing today is quantum cryptography or quantum key distribution (QKD). ...

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L.L. Huang - 2006 - ecf.toronto.edu

... On Alice's side, Alice uses her single-photon laser source to send out a ... If the error rate is higher than a certain ... Chapter 2. Quantum Key Distribution (QKD) ...

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### Quantum cryptographic key distribution networks with untrusted switches

BB Elliott - US Patent 7,324,647, 2008 - Google Patents

... Townsend et al, "Enhanced Single Photon Fringe Visibility in a 10 km Long Prototype Quantum Cryptography Channel ... et al, "Secure Key Distribution System Based ...

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H Hodara - Fiber and Integrated Optics, 2003 - informaworld.com

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### [doc] ► ... coding, fiber-based quantum key distribution system operating at sifted-key rate over 4Mbit/s

X Tang, L Ma, A Mink, A Nakassis, H Xu, B Hershman ... - Presented April, 2006 - uestc.org

... uses lasers to generate a stream of single photons, which ... Because of the rules of quantum physics, she cannot make ... If she measures a photon, with the idea of ...

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### DARPA Quantum Network Testbed

C Elliott, H Yeh - 2007 - Storming Media

... Key Distribution protocol stack including key-relay protocol ... a new form of quantum error detection and ... built the world's fastest single-photon detector for ...

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### An introduction to quantum information processing: applications and realizations

TP Spiller, WJ Munro, SD Barrett, P Kok - Contemporary Physics, 2005 - informaworld.com

... not destroyed, such as in the absorption of a photon). ... is in a superposition of eigenstates, a single measurement of O ... can be viewed as the quantum analogue of ...

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Secure communication in fiber optic systems via transmission of broad-band optical noise -

► [opticsexpress.org \[PDF\]](#)

O Buskila, A Eyal, M Shtarf - Optics Express, 2008 - [opticsinfobase.org](#)

... utilizing wavelength hopping/time spreading codes," IEEE Photon. ... the system and to a single pair of ... the ones implemented for quantum key distribution schemes [6 ...

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## Quantum computing

A Glassner'S - International Conference on Computer Graphics and ..., 2005 - [portal.acm.org](#)

... a 45-degree angle to it, the photon has equal ... qubits except the last corresponds to a single surface in ... and talk about the mechanics of quantum computing, or QC ...

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